

FMAT7449-20 DATA SHEET

20dB DC Bias Attenuator 50 Ohm TNC Male (Plug) to 50 Ohm TNC Female (Jack) Up to 3GHz Rated to 2 Watts Brass Tri-Metal Body, 1.35:1 VSWR

Fairview Microwave carries a wide range of fixed attenuators with a broad selection of attenuation levels, frequency ranges, and power dissipation ranges. RF microwave attenuators (also known as RF pads) lower the amplitude of a signal (attenuate) a known amount and can be used in a wide variety of applications. These attenuator pads are used when a signal needs to be reduced to protect measurement equipment or other circuitry, to extend the range of power meters and amplifiers, and to impedance match circuits by reducing the VSWR seen by adjacent components. RF attenuators can prevent signal overload in amplifiers, receivers and detectors, adjusting the signal level to a range that is optimal.

Few RF components are as commonly used as fixed coaxial attenuators, and Fairview Microwave carries one of the largest in-stock varieties and ships them same day. The FMAT7449-20 is a 20 dB DC passing Fixed Attenuator that operates from 100 MHz to 3 GHz and is rated to 2 Watts and 0.1A DC current. FMAT7449-20 would only attenuate RF signal without reducing the DC current passing through the part. The versatile coaxial package uses TNC male to TNC female connectors.



Min	Тур	Max	Units
0.1		3	GHz
	50		Ohms
	20		dB
	±5		dB
		2	Watts
		1.35:1	
je		100	Volts
nt		0.1	Α
		0.1 50 20 ±5	0.1 3 50 20 ±5 2 1.35:1 ge 100

Mechanical Specifications

Size

0.20	
Length, in [mm]	2.319 [58.9]
Width, in [mm]	0.63 [16]
Height, in [mm]	0.63 [16]
Weight, lbs [g]	0.088 [39.92]



Features:

- 0.1GHz to 3GHz Frequency Range
- Input Power 2 Watts (CW)
- 50ohm impedance
- Attenuation 20±5dB
- DC Bias Current 100mA Max
- VSWR < 1.35:1

Applications:

- Instrumentation
- Prototyping and characterization
- RF test systems
- Radar systems

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Configuration:

Design	DC Bias
Body Material and Plating	Brass, Tri-Metal

Connectors

Description	Connector 1	Connector 2
Туре	TNC Male	TNC Female
Contact Material & Plating	Beryllium Copper, Gold	
Outer Cond Material & Plating	Beryllium Copper, Gold	

Compliance Certifications (see for current document)

Plotted and Other Data

Notes: Values at 25 °C, sea level

Typical Performance Data

20dB DC Bias Attenuator 50 Ohm TNC Male (Plug) to 50 Ohm TNC Female (Jack) Up to 3GHz Rated to 2 Watts Brass Tri-Metal Body, 1.35:1 VSWR from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 20dB DC Bias Attenuator 50 Ohm TNC Male (Plug) to 50 Ohm TNC Female (Jack) Up to 3GHz Rated to 2 Watts Brass Tri-Metal Body, 1.35:1 VSWR FMAT7449-20

URL: https://www.fairviewmicrowave.com/20db-dc-bias-attenuator-tnc-male-tnc-female-2-watts-fmat7449-20-p.aspx

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